

Royal Botanic Gardens
and National Herbarium

Danthonia

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NEWSLETTER OF THE AUSTRALIAN NETWORK FOR PLANT CONSERVATION

Indigenous Remnants In the Spotlight at the Royal Botanic Gardens Melbourne

Stuart McIntosh and Therese Turner
(Horticulturists), Royal Botanic
Gardens Melbourne

Melbourne's world renowned Royal Botanic Gardens are about to undergo their most significant enhancement since William Guilfoyle designed their acclaimed sweeping lawns and winding paths in the late 1800s.

The major new development of the Old Melbourne Observatory site, which has been managed by the Royal Botanic Gardens since 1992, will increase the total size of the land under Gardens management by 10 hectares, and provide new world-class visitor facilities and plant displays to complement the historic Gardens.

Built in 1863 and situated between the Kings Domain, Government House and the Shrine of Remembrance, the Old Observatory is very much one of Melbourne's 'forgotten corners' because with the exception of occasional telescope viewings, it has seldom been open to the general public.

The project involves the restoration of Observatory buildings dating back to 1861, the construction of a new visitor complex, and soft landscape development which includes an Indigenous Grassy Woodland, scheduled for completion late in 1998.

A number of elements of native vegetation also survive on the site. Almost all of the canopy species from the original vegetation on the site have been lost, with five old trees of *Bursaria spinosa* being the principal possible survivors. One of these trees is located north-west of the Caretakers Cottage, with the others south and south-west of the Magnet House. Other possible canopy remnants include a single specimen of *Eucalyptus melliodora* (west of the gate to the Astronomer's Residence) and several of *Acacia implexa* (along the Government House fence line). Both the *Bursaria* and the *Eucalyptus* are listed on the National Trust Register of Significant Trees. The *Bursarias* are likely to be either remnant specimens, or progeny of remnants now gone. → page 4

Editorial/Coordinator's Report

Deborah Edwards, Editor

Each member will by now have received copies of both the current ANPC constitution and the proposed constitution, along with the covering letter and Ballot Paper, and almost certainly will have sent in their vote. If not, and if you receive this newsletter before the cutoff date of 9 October, the National Office urges you to vote and send it in as soon as possible.

You will also have received a copy of the brochure for the ANPC Plant Conservation Techniques Course to be hosted by Parks and Wildlife Tasmania. It is to be held from 30 November to 7 December 1998 and sounds very interesting and involving. Please note that full payment needs to be received by 30 October, and it would pay to register as early as possible, with your 10% deposit, to ensure a place. Special thanks to WildCARE Tasmania for cash sponsorship of \$1000.

Planning for the next biennial conference, which is likely to be held in November 1999, is underway. Jeanette Mill, ANPC National Coordinator, has visited Albury/Wodonga to liaise with Paul Scannell, from the ANPC South West Slopes Region Group, and the Friends of the Albury Botanic Gardens, about possible venues and assistance. Further details will be available shortly. Thanks to the energetic Paul and the Friends for their help.

The ANPC Germplasm and Translocation Guidelines have

been printed for the second time. Thanks to the Commonwealth Endangered Species Program for funding the printing costs.

In August a new volunteer started with the National Office to process memberships and requests for information. Welcome to Debbie Reynolds.

Many thanks go to Katherine Harrington who was performing this task and others, and to Jean-Marc Porigneaux who produced an *Internet Directory: a guide for Web sites on threatened plant species*.

(continued page 3)

ANPC Advisory Committee

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Mr Stephen Harris

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Dr Bob Parsons

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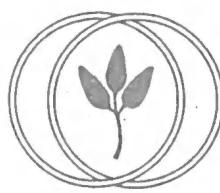
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In this issue

Indigenous Remnants in the Spotlight at the Royal Botanic Gardens Melbourne	1
A Week at the Cape: Genebank News from the 5th International Botanic Gardens Congress	7
The Sullivans Creek Catchment Group	9
The Tasmanian Understorey Network	10
LWRRDC News	13
News from INetPC	15
News from South Australia	18
Regional Groups	
NSW South West Slopes	17
NSW Western Slopes	17
Tasmania	17
Sydney	18
SENSW/ACT	18

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(continued from page 2)

As readers will see on page 11 of this issue, the National Office is also farewelling Leslie Lockwood, the Assistant Director of Living Collections at the Australian National Botanic Gardens. Leslie has been the third member of the National Office since early 1996, spending 10% of her time on ANPC tasks, and will be sorely missed. Thanks to her for unwavering support and much welcome advice!

In this issue of *Danthonia* there are several articles reflecting work being carried out both in botanic gardens and by community groups whether local or State-wide. The National Office would like to hear more from you, the members, about your local activities, and particularly from the western half of our continent. Feel free to send in reports, or ring the National Office for details of the best ways to send them.

Jeanette Mill, National Coordinator

Several members have been actively promoting the ANPC within their own networks, at conferences etc. The Australian Trust for Conservation, Florabank and Jan McNicol are three such members, and their efforts are warmly welcomed.

In September, I will be representing the ANPC at the Fifth International Botanic Gardens Conservation Congress and a meeting of the IUCN Species Survival Commission Plant Conservation Subcommittee. This will be an important opportunity for the ANPC to continue to

consolidate its international reputation as an active and important network on the global scale. Invitations were received and accepted to: present a paper on the ANPC; co-moderate a session on Network Development and Collaboration with Brien Meilleur, Executive Director of the US Center for Plant Conservation, and Edelmira Linares from Mexico; organise a Network Meeting along with Brien with assistance from David Galbraith, Coordinator of the Canadian Botanical Conservation Network; and participate in the IUCN SSC Plant Conservation Subcommittee meeting, including presenting a summary of ANPC's activities.

Many thanks are extended to Professor Henry Nix, Director of the Centre for Resource and Environmental Studies at the Australian National University and Chair of the ANPC Advisory Committee for generous financial assistance to attend the meetings.

The review of the Australian National Botanic Gardens staffing contribution to the ANPC has been completed, and the ANBG has generously offered to continue current levels of support until June 1999. This will mean that 50% of the time of the Conservation Officer (Deborah Edwards), and administrative liaison time of 10% of the Assistant Director of Living Collections will be donated to the ANPC for a further year. The tremendous support the ANBG provides to the National Office, also including office facilities, is greatly appreciated and is of enormous value to the ANPC.

From July 1999, Deborah will return to her substantive position with the ANBG. The tasks Deborah currently performs for ANPC will be ANPC's responsibility to complete, either through alternative funding, voluntary input or other means. These include assistance to the National Coordinator on all ANPC projects such as conferences, coordination of guidelines, chasing articles, collating, editing and publishing the newsletter. If you feel you could be of assistance with any of these activities, please contact the National Office.

Important News

Endangered Species Program funding for the 1998/99 financial year was approved by the Federal Environment Minister, Senator Robert Hill, in early September. Continued funding is dependent on the ANPC becoming incorporated, and pro-rata funding will be provided until January 1999. The ANPC thanks the Endangered Species Program and Environment Australia for this continued vital support.



(continued from page 1)

The trees are undoubtedly old, their size not increasing significantly in the past 15 years or so which suggests the plants are probably at the very least 60 years old. Photographs taken of the site during the late 1800s show no trees or shrubs likely to be *Bursaria* in the area. However, the exact position of the present trees is difficult to establish on the photos. It is possible that the *Bursaria* plants could have been maintained as a low coppice under a not-too-rigorous mowing regime. The species certainly has the ability to persist in a stunted form under heavy grazing or browsing. Alternatively they may be progeny of other nearby remnants now gone (several old trees, also listed on the Register of Significant Trees, remain in the grounds of Como House in South Yarra). Similarly, both the *Acacia implexa* trees, and the single *Eucalyptus melliodora* appear to be either true remnants or progeny of other previous indigenous remnants, also now gone.



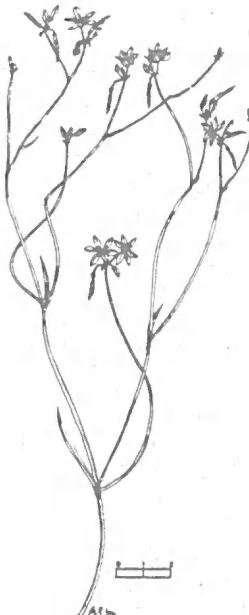
Bursaria spinosa var. *spinosa*

Elsewhere on the site are specimens of *Themeda triandra* (Kangaroo Grass), occurring with several other native species, including *Drosera peltata* subsp. *peltata*, *Tricoryne elatior*, *Microtis unifolia* and the sedge *Carex breviculmis*. As part of the landscape design, a selection of Melbourne's indigenous plants will be featured around the five *Bursaria* and the *Eucalyptus melliodora*.

The concept involves the creation of an Indigenous Grassy Woodland with a pathway through it, consisting of plants which would have existed on the site. With a small planting of indigenous grasses and herbaceous flowering material, the character and form of the *Bursarias* will be more greatly appreciated.

Historic records of other species that once occurred on or near the site within the same community have been consulted to compile a list of other species to be included in the woodland plantings. Sources for this information include specimen data from the National Herbarium of Victoria, published historic accounts of the original vegetation of Melbourne, and recent surveys of remnant vegetation in the Melbourne metropolitan area.

The first stage of the work has been to carefully transplant from the site to the Nursery all remaining indigenous *Themeda triandra* and other herbaceous species such as *Tricoryne elatior*, *Carex breviculmis*, *Microtis unifolia* and *Drosera peltata* subsp. *peltata*. We have now over two dozen plants of the *Themeda* and eleven *Carex* in the Nursery.



Tricoryne elatior

When we were preparing to dig up the two mature plants of *Tricoryne*, we discovered over twenty five young seedlings which had emerged from the parent plants. These seedlings and parent plants are now securely potted in the Nursery ready to be replanted on the site in spring 1998.

As the *Bursaria* are so advanced, Nadia Polikarpowski from the Nursery has collected seed and cutting material from them to ensure that their genotype is protected. Even though *Bursaria spinosa* occurs everywhere throughout Australia except for the Northern Territory, these are regarded as the survivors closest to Melbourne's Central Business District.

One of the challenges for the site will be successful and total weed control. As the area has been managed as exotic turf, and includes a large percentage of *Oxalis purpurea*, the spraying of the area to kill these plants prior to planting is imperative.

Our aim is to develop and manage the area with as few introduced weeds as possible.

In view of this, after spraying we will be using Jute-mat, a biodegradable product that will suppress weed growth for up to two years.

We are excited that these remnant plants have rightly been given a priority in this new high profile Observatory Gate project and that Melbourne's indigenous plants will be given another opportunity to thrive in the Royal Botanic Gardens Melbourne.

Acknowledgements

We would like to thank the following people for their generous assistance in compiling this article: Neville Walsh, Wendy Williams, Richard Barley and Jo Mayall from the Royal Botanic Gardens Melbourne.

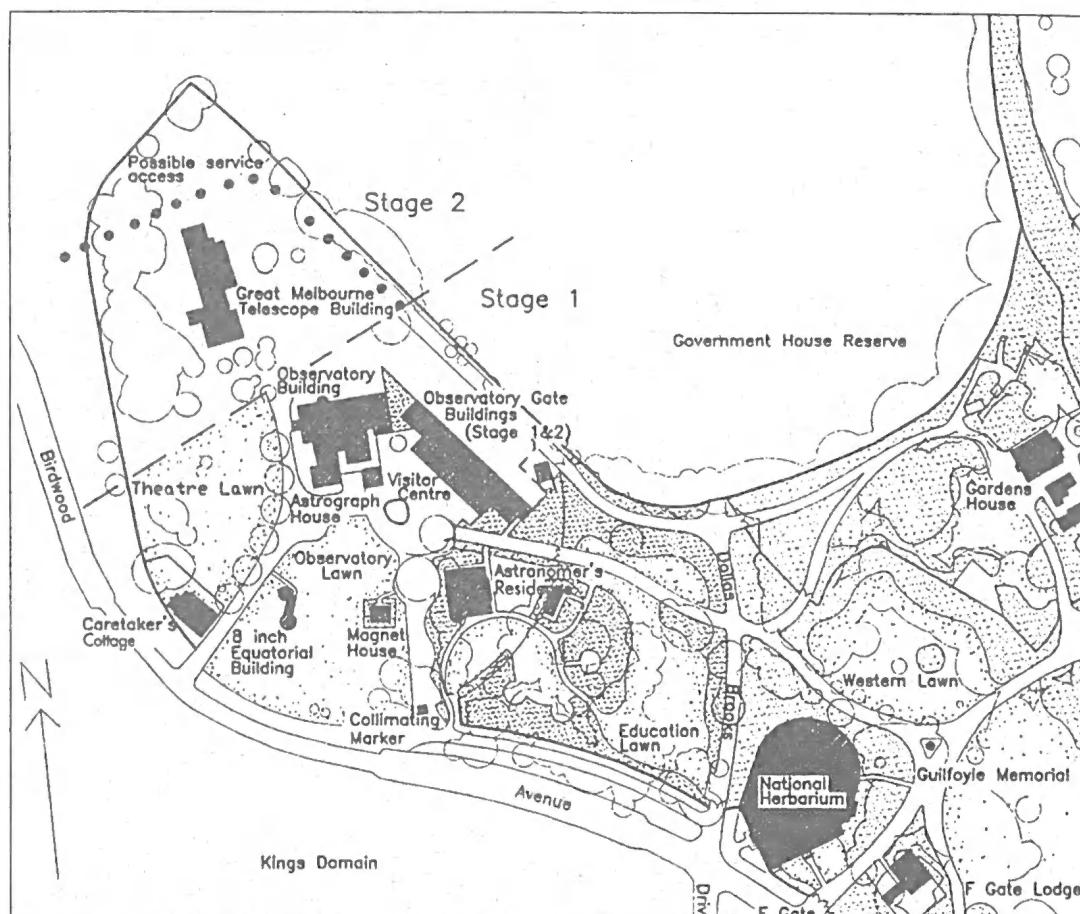
We would also like to thank George Stolfo from the Society

Themeda triandra
(Kangaroo Grass)



for Growing Australian Plants, Maroondah Group for kindly allowing us the use of his illustrations in this article.

These drawings are taken from the *Flora of Melbourne: a guide to the Indigenous Plants of the Greater Melbourne Area*. 1993. Eds. Marilyn Gray, John Knight et al., Society for Growing Australian Plants Maroondah, Inc. Hyland House Publishing, South Melbourne.



Map of the site at Royal Botanic Gardens Melbourne.

Copied from the RBG Melbourne Master Plan, drawn by Andrew Laidlaw.

Important Announcement for ANPC Members and Others: Fee Rise

The National Office and the Advisory Committee have decided to raise the membership fees after having them at the same level for seven years. The new fees come into effect from September 1998. Anyone joining from now on will immediately pay the relevant new rate, and current members will pay these when renewing.

The new rates are:

Federal, State or Local Government Agencies, corporations and industry associations	\$250 pa
Other non-profit organisations	\$60 pa
Interested Individuals	\$35 pa

If you know anyone who might be interested in joining the ANPC, please pass this information on to them and suggest they contact the National Office for a membership form.

Launch of Important Conservation Reference

The World List of Threatened Trees. 1998. Eds. Sara Oldfield, Charlotte Lusty and Amy MacKinven. World Conservation Press.

This important reference work, compiled by the World Conservation Monitoring Centre, was launched on 25 August 1998. It includes contributions from over 300 botanists, and information gleaned from various sources, about key details of more than 7000 tree species.

At least 10% of the world's trees are threatened and further losses need to be halted. Information on all aspects of the threatened trees, and their conservation

status, is important for conservation to be effective.

The book is also available as an interactive database on CD-ROM.

Both the book and the CD-ROM can be ordered from: The Information Officer, World Conservation Monitoring Centre, 219 Huntingdon Rd, Cambridge CB3 0DL UK. Phone: +44 1223 277314; Fax: +44 1223 277136; Email: info@wcmc.org.uk

Alternatively if you have access to the Internet, you can print off the order form and post it with your payment to the above address. The Web address is:

<http://www.wcmc.org.uk/trees/order.htm>

Please note that the WCMC require advance payment, so please contact the Information Officer for the costs plus postage and packaging in

currency other than pounds Sterling.

Tree Conservation Database

The WCMC's Tree Conservation Database, which has information on threatened species in interactive format, was used to generate this new publication. It can be found at: <http://www.wcmc.org.uk/trees>

When this site comes up, it will redirect you to the World Tree Information Service, and from there you can get access to sites including:

- the Database;
- the above-mentioned book and the order form;
- guidelines for applying the IUCN Red List categories to trees;
- information on trees in the CITES appendices; and
- one which allows you to contribute information and updates.

A Week at the Cape: Genebank News from the 5th International Botanic Gardens Congress

Anne Cochrane, Threatened Flora
Seed Centre, WA Herbarium,
Perth

After spending some five weeks on holiday roaming around Namibia, Zimbabwe and Kenya, looking at plants and animals, I attended the 5th International Botanic Gardens Congress in Cape Town, South Africa from 14 to 18 September. The conference incorporated keynote speakers over a day and a half, a mid-congress field trip and two days of workshops centred around a range of different themes. These included Conservation Practices, Policies and Conventions, Garden Management and Horticulture, Science and Research, Education, Capacity Building and Ethnobotany.

My main interest was in attending the workshops in the Conservation Practices theme, and presenting a paper in the Genebanks workshop. Three presenters spoke in this workshop: Jan Engels from IPGRI (International Plant Genetic Resource Institute in Italy), Gerrad Barendse from the Solanaceae germplasm bank in the Netherlands, and myself. Brigitte LaLiberte, also from IPGRI, acted as convenor for the session.

We offered a different slant in this workshop and actually came up with some recommendations before the session rather than after the

session! We did not wish to spend precious time debating such issues as in situ versus ex situ conservation strategies (we ALL know that in situ conservation has highest priority and that ex situ measures are complementary), or discussing specifics of the presenters' work. Rather we wished to cover broader issues of the need for collaboration between agencies and organisations.

Jan's excellent talk covered the major comparisons and differences between agricultural genebanks and botanic gardens genebanks.

Gerrad discussed the role of the Solanaceae genebank and its ties with organisations worldwide.

I talked about the Western Australian Department of Conservation and Land Management's integrated strategy for conservation of rare and threatened plants which includes genebanking of genetically representative collections of seed and their use in the reintroduction of plants back into the wild.

The presentations were followed by questions and some interesting discussion. Brian Meilleur from the Center for Plant Conservation in Missouri joined our discussion by telling delegates about the collaboration between the botanic gardens and the US Department of Agriculture's National Seed Storage Centre.

It was agreed that not all botanic gardens had need to establish a genebank. It should be possible for smaller gardens to collaborate with other gardens or with agricultural genebanks and make use of existing facilities if already available, hence avoiding

duplication of resources.

The recommendations and conclusions that were given for this workshop stressed the importance of this cooperation between different organisations concerned with the long term conservation of plant genetic resources. This cooperation needed to be enhanced, to avoid duplication of effort, and to fill the gaps at all levels (regionally, nationally and internationally). This idea of cooperation and collaboration was the ever present theme being recommended and linking all the workshop sessions that I attended.

Other recommendations in the Genebank workshop were the need for the germplasm conservation standards of botanic gardens to be improved especially with regards to the genetic variability represented, the documentation of accessions, the storage process, and monitoring and regeneration of those accessions. It was also agreed that it was important to encourage the development of new genebanks especially in areas of high botanical diversity, and that botanic gardens should be assisted in bringing their germplasm collections in line with the terms of the Convention on Biological Diversity.

The conference was a great venue for meeting new people, catching up with colleagues and contacts and for the exchange and dissemination of a range of ideas on conservation. The weather was fantastic and the setting below Table Mountain was magnificent.

Conferences & Workshops

Fourth ANPC National Conference

Advance Notice

November 1999:
Albury/Wodonga region.

The tentative date is 28 October - 1 November (but possibly 25 - 29 November). Part of the conference will be held over a weekend to assist community groups and individuals to attend.

Location

The Albury/Wodonga region supports a large network of organisations involved in plant and habitat conservation. It is an important agricultural area, with scattered remnants of native vegetation. Many co-operative conservation initiatives are occurring between landholders and other conservation stakeholders, with education a major thrust.

Conference Themes

Tentative themes include: conservation of ecological communities; regional conservation (an ANPC regional plant conservation strategy?); in situ conservation; education (does ANPC need an education strategy?); and integration of plant and animal conservation.

Hosts

Members of the active local ANPC South West Slopes Group are fully behind the conference. The Friends of the Albury Botanic Gardens, and

Gardens staff, are willing to assist in organising the conference and tours. The Nature Conservation Working Group of the Murray Catchment Management Committee (including staff from NSW Department of Land and Water Conservation, Charles Sturt University, the Victorian Department of Natural Resources and Environment, the NSW National Parks and Wildlife Service, and Greening Australia) is also keen to participate.

Conference Committees

Here is your chance to be part of organising Australia's major plant conservation conference! If you would like to be part of the local organising committee or the program committee, or wish to conduct a workshop on a suggested or alternative theme, coordinate poster presentations, host a tour, or assist with publicity, please contact the National Office.

8th Annual NSW Coastal Conference: A Sustainable Future

10-13 November 1998:
Bateman's Bay, NSW.

The conference will discuss how the principles of ecologically sustainable development (ESD) apply to the NSW coastline, and the range of interests which need to be balanced. Speakers will provide principles and practices. There will be a variety of field trips.

Enquiries can be directed to Gloria Jones, Coastal Conference Secretariat, PO Box 1064, Bateman's Bay NSW 2536. **Phone/Fax:** 02 4472 3870; **Email:** eurotour@acr.net.au

Rainforest Remnants: a Decade of Growth

21-23 November 1998:
Lismore, NSW.

The conference will be presented by the NSW National Parks and Wildlife Lismore Office. It will bring together technical experts, land managers and community members to share a decade of experience and results in restoring and maintaining rainforest remnants. The aim is to learn to better face the future challenges. There are optional field trips.

For information, contact Michael Duroux, PO Box 91, Alstonville NSW 2477. **Phone:** 02 6627 0200.

The Environmental Professional in the New Millennium

2-4 December 1998:
University of New South Wales, Sydney.

This is the 11th Annual Conference of the Environment Institute of Australia. It aims to examine how the environmental professional is changing, why, and in what direction.

It will look at trends in environmental management, education, partnership, and professional development needs. There will be panels, a hypothetical session and an inter-association round-table discussion on 'A unified approach to effective government lobbying'.

For more information, contact Spiro Kanellakis. **Phone:** 02 9290 1133.

The Sullivans Creek Catchment Group

Jennie Gilles, Sullivans Creek Catchment Group

Pointing at the bare concrete banks of Sullivans Creek, one of the primary school students laughed. 'That's not a creek, it's a dirty old stormwater drain!' This is a standard response from not only primary school students but also adults when the word 'creek' is used to describe the water course of North Canberra. Sullivans Creek Catchment Group aims to change this perception of the creek through community awareness and to facilitate the appropriate management of the catchment.

Sullivans Creek is a tributary of the Molonglo River (ACT) which in turn feeds into the Murrumbidgee River, and is therefore within the Murray Darling Basin system. The Creek is a natural drainage channel of which much has been lined with concrete and adapted to cope with stormwater runoff from urban development. As a result the creek looks like a drain, smells like a drain and gets used as a liquid garbage dump. One only needs to glance at the Gross Pollution Trap situated near the bottom of the catchment on Barry Drive to see the large volume of rubbish and other pollutants swept into the creek from the North Canberra catchment area. The water quality is highly degraded and biodiversity levels are extremely low.

The Sullivans Creek Catchment Group is endeavoring to increase the profile of the catchment

management issues and the important health and conservation issues associated with it. The Group aims to improve the water quality and increase biodiversity. A major goal is to attract as many as possible of the original native fauna species back to the creek and surrounds by removing exotic vegetation from the banks and replacing it with as many of the original native flora species as possible, recreating a healthy ecological system. This would involve removal of sections of the concrete lining.

There is a complex process to undergo before on-ground projects can begin in Sullivans Creek Catchment. There are a diverse range of environmental, socio-economic, cultural, development and planning issues facing the catchment. There is a variety of stakeholders dealing with these issues, including residential and community groups, Landcare groups, educational and institutional bodies, businesses and industrial organisations, and many Territory and Federal Government services. Identifying the relationships between these groups and the multiple complex issues that face the catchment is the initial major aim of the Sullivans Creek Catchment Group. To facilitate this aim an Advisory Committee is currently being set up containing representatives from all stakeholder groups mentioned above and experts on catchment management options. This group will ensure the integration and involvement of the stakeholder groups, create a channel of communication to discuss

catchment issues and appropriate management, and produce a Total Catchment Management Plan as a basis on which to move forward.

Sullivans Creek Catchment Group is seeking interested, motivated and skilled people to contribute to the group in whichever way possible. The Group holds general meetings on the first Monday of every month and anyone interested in becoming involved is welcome to attend.

If you want more information please do not hesitate to contact:

Heather Colman: 02 6249 1375; or

Jennie Gilles: 02 6247 1029.



Grevillea wilkinsonii. Drawn by Kevin Thiele, from the collections of the Australian National Botanic Gardens.

The Tasmanian Understorey Network

Naomi Lawrence

As we last reported on our activities in the September 1996 issue of *Danthonia* (Vol 5. No. 2), we thought it was time to provide an update on how the network is faring.

Since its formation in 1994, the Understorey Network has grown in size and influence. It is presently managed by a small highly motivated management committee comprising six members (all volunteers). This committee employs a part-time coordinator who sees to the day to day running of the Network and who has been (and still is) instrumental in setting up and establishing the many activities that the Network now runs. Our original coordinator, Anna Povey, reluctantly resigned early this year and has since been replaced by Alison Moore.

The Understorey Network focuses on four main functions/activities in relation to Tasmanian understorey plants. These are:

- publicity, education and awareness;
- provision of technical information;
- creation of a voluntary network of plant growers to provide free Tasmanian understorey plants (not readily available commercially) for use in revegetation projects; and
- seeking support and funding.

The Network has developed a yearly schedule of field

days and workshops on issues regarding the retention, management and re-establishment of Tasmanian understorey vegetation. We have conducted over 100 activities including propagation workshops, seed collecting days, field days on bush management, fire ecology etc., a forum focusing on the issue of understorey in farm forests (the proceedings are now available), and displays at events such as Agfest, World Environment Day and the Women On Farms Conference.

We have also produced numerous leaflets including a membership/Network promotion leaflet, growers instructions, how to collect native seeds, how to identify native plants, and how to propagate native plants from cuttings. In addition, we produce a quarterly newsletter which aims to provide practical information on how to propagate, grow, establish and maintain native plants as well as other useful information about understorey ecology, economic uses, etc.

In our efforts to provide appropriate practical information, we have been collecting any information we can find about propagating Tasmanian understorey plants and placing it onto a database developed by a Network member and located at the Royal Tasmanian Botanic Gardens. We now have a volunteer coordinator who is collecting information and adding it to this database.

Eventually we will produce leaflets on the propagation, establishment and maintenance of individual species. It is also our intention to integrate the database with other relevant

national and state databases as well as placing it on 'the Net'.

We have set up a growers network and this year have over 70 members growing approximately 18,000 plants, well over last year's total of 10,000 plants. To achieve this increase we have run workshops in a number of regions to set up the growers' groups and to show people how to collect seeds then propagate, grow and establish the plants. We are in the process of refining a system of matching plant growers with those who require the plants for revegetation as well as establishing a seed bank and a seed bank database to keep record of when and where the seed was collected, plus other relevant location information.

Perhaps our most difficult task is to ensure that there is ongoing funding for the Network. To date it has been successful in obtaining funding from Landcare, but with the uncertainties surrounding Federal funding from sources such as Landcare (now the NHT), we are keen to try to make ourselves self-funding in the future. So far we have managed to find ways of providing for many of our resource needs by other means. eg by pooling resources with other organisations such as Parks & Wildlife Tasmania for displays, etc. Shortly we will be developing a strategic plan to help keep us focused and heading towards achieving our broader vision and also to help wean us from relying too heavily on Government funding. We are also trying to ensure that our activities integrate with existing projects.

Since its inception the Understorey Network has

grown way beyond our expectations and the support for it has been overwhelming. Our activities have involved and accessed the wider Tasmanian community and extended to private and public lands. We have been able to provide many people with the knowledge and practical skills to collect seed and grow their own local understorey plants. Through our efforts, the issues relating to the propagation, use, establishment, maintenance, management and conservation of Tasmanian understorey plants have gained greater public exposure and this has helped to increase an awareness of these issues in Tasmania. Recently our efforts were recognised publicly when we awarded runner-up in the Environment Australia/Landcare Nature Conservation Award 1997.

We currently have more requests than we can deal with to provide information about Tasmanian understorey plants and to become involved in events related to conservation, environment and land management issues around the State.

Given the support we have had to date, the Committee can only see the Network and its activities expanding. We hope this will ensure that the message, 'that understorey plants are important, let's not lose them,' will become more widespread and accepted. The Network is looking forward to the challenge of another year's activities!!

New Research at Kings Park and Botanic Garden

Reproduced with permission from the Australian Minerals and Energy Environment Foundation Newsletter Issue No. 9, Spring 1998

Scientists at Kings Park and Botanic Garden, in collaboration with Agriculture WA and the University of Western Australia, are now developing a new technology for seed propagation to provide seedlings and seed for large scale plantings. The aim of this research is to create artificial seeds by using embryos from seed cell cultures to produce over 60,000 artificial seeds from a single gram of tissue.

The WA Soil and Land Conservation Council's Landcare Program is funding the research. Once developed, the technology will be used for native species rehabilitation programs, which will assist in the replacement and management of important native species that are not currently being used in land rehabilitation activities.

Also contributing financial support to the project are Alcoa Australia and RGC Mineral Sands, in order to formulate techniques which are specifically aimed at mine-site rehabilitation.

For further information contact Kings Park and Botanic Garden.

Phone: 08 9480 3600;

Web Address:

<http://www.kpbg.wa.gov.au>

Farewell to Leslie Lockwood

Deborah Edwards

On 4 September a large number of people congregated at the Education Centre of the Australian National Botanic Gardens for a lunch to mark the retirement of Leslie Lockwood, the Assistant Director of Living Collections.

We listened to words of praise and thanks for Leslie, who received a number of gifts to help her to pursue her artistic leanings, and a huge card signed by many people, a lot of whom are sad to see her go.

The ANPC farewelled her a day earlier, when the Chair of the ANPC Advisory Committee, Professor Henry Nix, and the two main National Office staff, namely Jeanette Mill and Deborah Edwards, took her to lunch.

Leslie has been a great support to the National Office, often giving more than the time set aside for ANPC. She attended the weekly meetings, contributed ideas, assisted with the Third National Conference and Committee meetings, took minutes, and was a liaison person with the section within Environment Australia which administers our funding.

Jeanette and I thank Leslie on behalf of the members for such a valuable contribution, and hope she enjoys her retirement!

Plant Conservation Techniques Course

30 November - 7 December 1998: Hobart, Tasmania.

This course is supported by the ANPC, Parks and Wildlife Service (PWS) Tasmania (the hosts), NSW National Parks and Wildlife Service (NPWS), Royal Tasmanian Botanical Gardens, Greening Australia (Tas), Threatened Species Network (Tas) and WildCARE - Friends of PWS Tas.

It aims to give practical knowledge, provide an opportunity for information, skills and experience exchange, and promote networking at all levels. There will be a mixture of lectures, workshops, demonstrations and field trips.

Speakers include: Dr David Given IUCN (NZ), Professor Jamie Fitzpatrick (University of Tasmania), Jeanette Mill, Steve Harris, Dr David Keith and others from PWS Tasmania and Maria Matthes from NPWS NSW.

For enquiries contact Andrew Smith, Parks and Wildlife Service Tasmania.
Phone: 03 6233 2185;
Email: andrews@delm.tas.gov.au



International Training Programme 1999

Royal Botanic Gardens Kew

19 April - 14 May 1999: International Diploma in Botanic Gardens Education, in association with Botanic Gardens Conservation International.

7 June - 30 July 1999: International Diploma in Herbarium Techniques.

19 August - 13 October 1999: International Diploma in Plant Conservation Techniques.

For information contact the Education Section, Royal Botanic Gardens, Kew Richmond Surrey TW9 3AB UK.

Phone: +44 (0) 181 332 5623/5638;

Fax: +44 (0) 181 332 5610;

Email: Courses@rbgkew.org.uk

Web Address:

<http://www.rbgkew.org.uk/education/index.html>

practical experience in the laboratory, a visit to Kings Park and Botanic Gardens and a weekend field trip to the Threatened Ironstone communities near Busselton, south of Perth. Course participants were given an introduction to flora management, integrated conservation strategies and seedbanking, learnt the importance of good seed and gained practical experience in seed quality assessment, viability testing, moisture content determination and seed storage.

Nine people from botanic gardens and Greening Australia attended the course which was dubbed a great success. If there is sufficient interest the course will be held again in the next few years.

Watch out for the next issue of *Danthonia* when a more comprehensive article on the course will be published!

Report on WA Seed-based Genebank Course

Anne Cochrane, Manager, Threatened Flora Seed Centre, WA Herbarium

From 27 July to 2 August 1998, a short course on 'Establishing a Seed-Based Genebank for Conservation' was held at the Western Australian Department of Conservation and Land Management's Threatened Flora Seed Centre at the WA Herbarium.

The course included 5 days of lectures and hands-on



LWRRDC News

Compiled by Deborah Edwards
with permission from
LWRRDC editors

For those of you wondering, the acronym LWRRDC stands for the Land and Water Resources Research and Development Corporation.

The mission of LWRRDC is: "To provide national leadership in utilising R & D to improve the long term productive capacity, sustainable use, management and conservation of Australia's land, water and vegetation resources. The Corporation will establish directed, integrated and focused research and development programs where there is clear justification for additional public funding to expand or enhance the contribution of R & D to sustainable management of natural resources."

The Corporation is a statutory body under the *Primary Industries and Energy Research and Development Act (PIERD Act)* 1989 and is therefore accountable to Parliament and to users and managers of Australia's natural resources. It has a Board of nine Directors who develop policy, review and evaluate the research programs, and create specific committees.

There are three R & D Program Management Committees overseeing 18 R & D Programs, and there are also funding partners including Environment Australia and the Rural Industries Research and Development Corporation.

The R & D Programs are grouped under three priority research areas for 1996-2001:

- **Productive and Sustainable Land Use Systems**, including the National Dryland Salinity R, D & E Program;
- **Sustainable Management of Rivers and Water Resources**, including the National River Health Program;
- **Sustaining Vegetation in the Landscape**, including the National Remnant Vegetation R & D Program.

National Remnant Vegetation R & D Program

An ANPC member, Jann Williams, has recently been appointed the new coordinator for this Program. Jann was previously a lecturer in Vegetation Ecology and Management in the School of Environmental and Information Sciences at Charles Sturt University.

The Program aims is to support research and development which will help landholders, community groups and government agencies to achieve better management and protection of remnant vegetation. The funding partner is Environment Australia and there is a link between this R & D Program and the Bushcare Program.

Streamline

A crucial LWRRDC resource is the natural resources database, Streamline. For information, or to subscribe, contact Pam Handyside.

Phone: 02 6236 6267;
Email: infoscan@acslink.net.au
Internet: <http://www.infoscan.com.au>

LWRRDC Newsletters

Regular readers of *Danthonia* may have noticed that we often publish information on LWRRDC publications documenting the results of many of their projects. They also produce a number of newsletters to share program information on land, water and vegetation resources with managers and researchers. These are:

- *FOCUS* - newsletter of the dryland salinity program;
- *Intersect* - LWRRDC general newsletter [Ed. from which much of this information was taken];
- *propHile* - soil acidification newsletter;
- *RIPRAP* - riparian land management program newsletter;
- *WaterWheel* - newsletter of the irrigation program.

To be placed on the mailing list for any of these free newsletters, contact LWRRDC for a Communication Request Form.

Phone: 02 6257 3379;

Fax: 02 6257 3420;

Email: public@lwrrdc.gov.au

Other Web Sites

The National Dryland Salinity Program

Address:

<http://www.lwrrdc.gov.au/ndsp/index.htm>

The Australian Rural Research in Progress (ARRIP) web site allows you to search for details of all the LWRRDC-funded projects and others on agriculture, rural environment and primary production.

Address:

<http://www.infoscan.com.au/arrip/index.htm>

National Land and Water Resources Audit

LWRRDC is now also supporting the four-year National Land and Water Resources Audit. The Audit Management team is co-located in the LWRRDC office in Canberra, and the Audit is now included in the *Research and Development Plan 1996-2001*.

The Audit is investigating data sets on the state of the natural resources base in Australia.

Information can be found on the web site, which also allows stakeholders to subscribe to the electronic mailing list, AuditInfo.

Address:

<http://www.nlwra.gov.au>

AuditInfo packs, including a series of Fast Fact Sheets, are also available.

To obtain Audit publications if you have no access to Internet, or for more information, contact Janice Oliver.

Phone: 02 6257 9517;

Fax: 02 6257 9518;

Email: info@nlwra.gov.au

Some Recent Publications from LWRRDC

Data Sheets on Natural Resource Issues. Occasional Paper No. 11/98. 1998. This publication examines priority natural resource management issues in terms of gross benefits (such as importance and desired outcomes), researchability, adoption and integration with other R & D activities.

It is available free from LWRRDC. See the contact details on page 13.

Diversity and Sustainability in Grassy Eucalypt Ecosystems. Occasional Paper No.4/98. 1998.

This paper examines the broad issue of the ecological sustainability of grassy woodlands.

The concept of sustainability, the relationship between it and biodiversity, and the role these concepts play in maintaining healthy ecosystems, are outlined. The report also looks at a range of sustainability indicators for land managers.

The challenge for researchers is seen as maintaining the productivity of grassy woodlands without compromising their ecological sustainability, and directions the research should take are outlined.

The report is available for \$10 from the Department of Primary Industries (DPIE) Shopfront.

Freecall: 1-800-020 157.

The National Groundwater R&D Program: Strategic Plan 1996 - 2000. 1998. Declines in groundwater quality have implications for terrestrial ecosystems as much as for other issues. The booklet, aimed at managers and policy makers, outlines the issues and the aims and development of the program.

Available from the DPIE Shopfront, as above.

LWRRDC R & D Calendar

Researchers wishing to make applications in response to funding calls are advised to check the LWRRDC Home Page, Ads/Applications.

Address:

<http://www.lwrrdc.gov.au>

Conference: Call for Papers

Getting the Message Across: Communication for Conservation

21-26 March 1999: Alice Springs Desert Park, Northern Territory.

This will be presented by the Australasian Regional Association of Zoological Parks and Aquaria (ARAZPA) and the Australasian Society of Zookeeping (ASK). The conference is an opportunity for zoo industry professionals to get their message over to both colleagues and a wider audience.

One major aim is to highlight the importance of plants in zoos, and also to provide more opportunity to explore possible links between zoos and botanic gardens.

There will be local speakers, a mixture of papers, technical presentations, workshops, poster sessions and meetings of Taxon Advisory Groups. There will also be visits to interesting desert landscapes both within and outside of the new Desert Park.

Call for Papers

Please Note: Abstracts are due by 13 November 1998. For more information, contact Andrew Mann, Conference Coordinator, Alice Springs Desert Park, PO Box 1046 Alice Springs Northern Territory 0871.

Phone: +61 8 8952 8764;

Fax: +61 8 8951 8777;

Email: andrew.mann@nt.gov.au

News from INetPC

Taken from Eksplorasi Vol 3,
No. 2

In 1998 there have been a number of changes for the Indonesian Network for Plant Conservation (INetPC).

At the office at Kebun Raya Bogor, Siti Roositi Ariati and Reni Lestari were having English language training before heading to Australia to study for their Masters degrees in botany. They will specialise in plant taxonomy and systematics.

There is also a new part-time assistant, Kartika Ning Tyas, from the research staff at the Bogor Botanic Gardens, and a new Australian Volunteer Abroad, Angela Smith. She will be Editor of Publications and English Language Advisor. Angela replaces Frank Zich who has gone to Eka Karya Botanic Garden at Bedugul in Bali.

In addition, the USA branch of INetPC has now attained independent status. It will call itself ECO-SEA, the Ethnobotanical Conservation Organization for South-East Asia. "ECO-SEA will promote research, interpretation, training and database management relating to the ex situ and in situ sustainable use of rare, endangered and endemic Malesia flora." It will also be developing cooperatives with partner organisations in other south east Asian countries. ECO-SEA can be contacted at PO Box 1710, Davis, California 95617 USA.

Indonesia covers a huge area with over 20,000 endemic plant species, so to set out to "survey, identify, research and protect Indonesia's plant heritage is an enormous, never-ending, and at times, overwhelming vocation."

However, as the editorial continues, they are achieving a lot. " Each year INetPC members and affiliates in 21 countries and 16 provinces within Indonesia database thousands of plant species, hold dozens of crucial training workshops and seminars, and educate hundreds of community members in their constituent localities."

INetPC has been running for four years and now "has two offices, six facilitators and over 300 members...focusing on consolidating cooperative ventures between member organizations [which enables them] to mix fund-raising expertise from one organization, consultants from a sister institute, and plant surveying techniques from a government agency."

A major initiative which INetPC has been coordinating is a database management project for the four Indonesian botanic gardens in cooperation with Botanic Gardens Conservation International and funded by the UK Darwin Initiative for Survival of Species.

INetPC and the Indonesian Botanic Gardens (KRI) are now on line with information and photographs.

INetPC:
[http://www.bogor.indo.net.id/
inetpc/](http://www.bogor.indo.net.id/inetpc/)

KRI:
[http://www.bogor.indo.net.id/
kri/](http://www.bogor.indo.net.id/kri/)

Publications

Weed Navigator

In August this year a comprehensive publication was launched by the Cooperative Research Centre for Weed Management Systems based in Adelaide.

Weed Navigator is a two-part weed contact and information guide for Australia and New Zealand. The first part is the Contact Directory which contains over 970 weed contacts, including newsletters. The second is the Resource Guide, which lists and describes over 1800 publications including web sites, CD ROMS and legislation.

Copies are available for \$30 from the CRC for Weed Management Systems, University of Adelaide, PMB 1 Glen Osmond SA. 5064.

Phone: 08 8303 6590;

Fax: 08 8303 7125;

Email: crcweeds@waite.adelaide.edu.au.

Biodiversity: Exploring Values and Priorities in Conservation. 1997. Dan L. Perlman and Glenn Adelson. Blackwell Science, MA USA.

Factors Influencing the Integrity of Remnant Bushland in Subhumid Tasmania. *Biological Conservation* 84(1): 89-96. 1998. Gilfedder L. and Kirkpatrick J. B.

Small Purple Pea, Swainsona recta: an Endangered Species. Action Plan No. 9. 1998. Environment ACT, Canberra.

The Grassy Plains of South-Eastern Australia. 1998. Ian Lunt, Tim Barlow and James Ross. Trust for Nature and Victorian National Parks Association.

This can be ordered from the Victorian National Parks Association, 10 Parliament Pl, East Melbourne. 3002.
Phone: 03 9650 8296;
Fax: 03 9654 6843.

Grassland Plants of South-Eastern Australia. 1998. Neil and Jane Marriott. Bloomings Books, Hawthorn, Victoria.

The recommended retail price for the book is \$26.95, and it can be ordered from Bloomings Books, 'The Stables', 21 Isabella Grove, Hawthorn, Victoria 3122.
Phone: 03 9819 6363;
Fast Fax: 03 9818 1862.

Agriculture and the Environmental Perspective. 1998. Jim Pratley and Alistar Robertson, eds. CSIRO Publishing, Collingwood.

This book is available for \$49.95 from CSIRO Publishing, PO Box 1139, Collingwood Victoria 3066.
Phone: 1-800-645 051;
Fax: 03 9662 7555;
Email: sales@publish.csiro.au

Hand in Hand: Farming Sustainably. 1998. National Farmers' Federation, Canberra. Available free.

Contact Anwen Lovett, National Farmers' Federation, GPO Box E10, Queen Victoria Terrace, Barton ACT 2600.
Phone: 02 6273 3855;
Fax: 02 6273 2331.

Wetlands in a Dry Land: Understanding for Management. 1998. W. D. Williams, ed. Biodiversity Group, Environment Australia, Canberra.

Environmental Impact Assessment: Procedures, Practice and Prospects in Australia. 1998. N. Harvey. Oxford University Press, Melbourne. Part of a series called *Meridian: Australian Geographical Perspectives*. \$34.95. To order, please contact the Customer Services Department.
Phone: 03 9934 9122;
Freefax: 1800 813 602;
Email: cs@oup.com.au

Human Rights Approaches to Environmental Protection. 1998. Allan E. Boyle and Michael R. Anderson. Oxford University Press, Melbourne. \$75.00. To order, please see the contact details above.

Internet Guide

The Australian Farmer's Guide to the Internet. 1998. Rural Industries Research and Development Corporation.

This book contains a CD-ROM which includes two starter kits and some software products. It explains how to get started, how to design and build a Web page, electronic mail, searching the Web, and more.

It also lists useful sites and service providers.

Available for \$25 from RIRDC Level 1, AMA House, 42 Macquarie St, Barton ACT 2600

Phone: 02 6272 4539;
Fax: 02 6272 5877;
Email: rirdc@netinfo.com.au

Electronic Addresses

IUCN Red List Searchable Database

<http://www.wcmc.org.uk/species/plants/overview.htm>

Botanic Gardens Conservation International (BGCI)

<http://www.rbgkew.org.uk/BGCI>

American Association of Botanic Gardens and Arboreta (AABGA)

A listserver for those concerned with developing, documenting and maintaining plant collections. To subscribe, send the following message:
SUBSCRIBE AABGACOL
firstname lastname to:

listserv@msu.edu

Oceans Internet Sites (1998 is the Year of the Oceans)

CSIRO

<http://www.marine.csiro.au/LeafletsFolder/OtherResources/www-resources.html>

Environment Australia

<http://www.environment.gov.au/marine/>

Great Barrier Reef Marine Park Authority

<http://www.gbrmpa.gov.au/>

Regional Groups

NSW South West Slopes Region

Paul Scannell, Albury Botanic Gardens

Threatened Species Visit

Botanists David Jones and Steven Clarke visited the Albury region to study our population of the Crimson Spider Orchid, *Caladenia concolor*. They have also visited the Burrinjuck and Bethungra populations to ascertain the identity of the plants there. This would enable a recovery plan to be put into motion.

It was fantastic listening to David Jones in the field, explaining specific pollinators, variations in floral structures and the evolution of plants and insects.

After locking up the area some two and a half years ago, with only one flower present for the previous two years, we now have eight plants in flower and one that has been pollinated naturally, hopefully by the male Thynnid wasp. It is attracted to the flower by a pheromone mimic.

This has been a great outcome for this patch of bush, which has 37 species of native orchids verified and extensive educational opportunities through its flora and fauna.

Funding Submissions

Submissions are flying in all directions and many projects for plant conservation are proving very beneficial. The Greening Australia

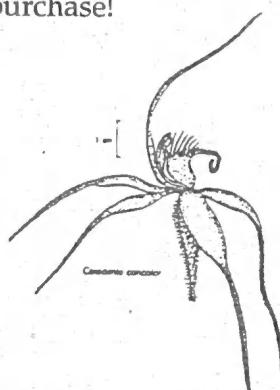
Fencing Initiatives are proving very popular and protecting many valuable remnant vegetation sites. After regeneration, these sites provide a great resource for seed collection and wildlife habitat and further the conservation of biodiversity.

Book Launch

The Nature Conservation Working Group of the Murray Catchment Management Committee had the pleasure of launching the South West Slopes Vegetation Guide recently at Morven. The book was a collaborative effort of all the conservation groups from the region, and compiled by Fleur Stelling and Karen Walker.

It is a town by town listing of indigenous vegetation with identification sheets and comprehensive native plant use, propagation and planting information. It covers the region bounded by Narranderra, Gundagai, Khancoban and Corowa and is selling like hot cakes.

The Guide is available at Greening Australia and Department of Land and Water Conservation offices and at a cost of \$25 for the main volume and \$15 for the three regional guides, it is a must purchase!



Caladenia concolor Fitz.

Drawn by David Jones. Taken with permission from his book, *Native Orchids of Australia*. 1988. Reed Books.

Future

By the next issue of *Danthonia*, we will have a full update on the recovery plan and identifications of the three *Caladenia concolor* populations.

If you have any inquiries about the projects or submissions, please contact us at the Albury Botanic Gardens office, by phone, fax or on our huge leap into Email.

Phone: 02 6023 8241;

Fax: 02 6041 6527;

Email: accgarden@albury.net.au

For information about the Regional Group, please contact Paul as above, or Mark Sheahan, Department of Land and Water Conservation.

Phone: 02 6041 6777.

NSW Western Slopes Region

The Western Slopes Regional Group has not met since May 1998, as many members have been very busy.

Coordinator Bob Waters is aiming to have a meeting in late spring.

For more information, please contact him at the Burrendong Arboretum.

Phone: 02 6846 7454.

Tasmanian Region

The Coordinator of Botanical Guardians, Andrew Smith, has been busy organising the ANPC Plant Conservation Techniques Course. See page 12 of this issue for details.

For more information, contact Andrew at Parks and Wildlife Service Tasmania.

Phone: 03 6233 2185;

Fax: 03 6233 8308.

Sydney Region

Deborah Edwards

The Sydney Region Group is meeting as we go to press, and the report will be in the next issue of *Danthonia*.

The meeting is to be held at the Katandra Bushland Sanctuary at Ingleside (in the northern suburbs). Here Lyn McDougall and Don Seymour from the Katandra Trust will give the background of the Sanctuary, which was set up to promote the study and preservation of native flora and fauna within it.

After lunch Lyn will lead participants on a tour of the Sanctuary. In the report it will be interesting to read details of the Sanctuary and especially to hear how it is regenerating after the high intensity fire of 1994. And will the group find *Boronia mollis*, *Bertya brownii*, *Tmesipteris truncata* and the other special plants of the area?

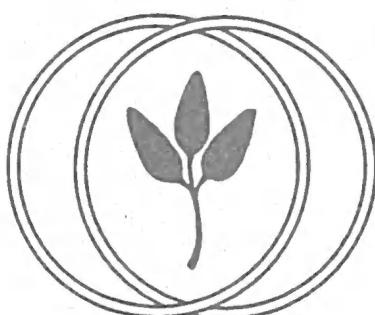
Read the December issue to find out!

For information about the Group, contact Coordinator Tracey Armstrong, Mt Annan Botanic Garden, Mt Annan Drive, Mt Annan NSW 2567.

Phone: 02 4648 2477;

Fax: 02 4648 2465;

Email: tracey@rbgsyd.gov.au



SENSW/ACT Region

Deborah Edwards

As mentioned in the June issue of the newsletter, the two Coordinators of the SENSW/ACT Regional Group have resigned. (*Danthonia* Vol. 7, No. 1).

The National Office repeats the appeal made then.

WE NEED YOU!

Help ANPC continue its vital role in conserving plants and communities at a local level as well as nationally!

The SENSW/ACT group now needs a new coordinator, so if one of you, the local members, is willing to spend time and energy to take on the position, please ring the National Office on

02 6250 9509.

Events

Coastcare Week

For the Summer Activities Program, contact the following:
Phone: 1 800 803 772.

Ocean Care Day

Contact your Regional Marine and Coastal Community Network Coordinator, or contact the following:
Phone: 1 800 815 332;
Email: mccnet@ozemail.com.au

News from South Australia

Taken with permission from SA Veg. on the Edge Vol. 1 No. 2 (Black Hill Flora Centre, Threatened Plant Action Group and SA Temperate Grassland Project)

New Council Reserve for Threatened Wattle

The Neat Wattle, *Acacia rhetinocarpa* (3VC), has now been protected in the Muloowurtie Conservation Reserve on Yorke Peninsula. Rubbish and weeds have been removed, fencing erected, signs installed and revegetation commenced in a collaborative effort from various groups. A Management Plan has been prepared, and adopted by the local District Council.

Taken with permission from The Web, Newsletter of the Threatened Species Network (SA) Vol.5 No. 3

Urban Forest Biodiversity Program

This program focuses on nearly 2000 square kilometres of the Adelaide metropolitan area.

Projects include regional planning, revegetation, "cooperative projects between the State Tree Centre, other community groups and government agencies to establish vegetation corridors and buffers", developing a database and educational materials and supporting Aboriginal Heritage Projects.

For information, contact Ross Oke, State Tree Centre.
Phone: 08 8207 8767.

**The Australian Network For
Plant Conservation
Membership List**

The date (1996/7/8) indicates that the member has joined or renewed for that year. Addresses and names of contact persons are available from the National Office.

Corporate Members

ACT Parks & Cons. Service (1998)
Adelaide Botanic Gardens (1998)
Albury Botanic Gardens, NSW (1998)
Alcoa of Australia Ltd, WA (1998)
Australian National Botanic Gardens (1998)
Aust Tree Seed Centre, CSIRO (1998)
Barcaldine Shire Council, Qld (1997)
Biodiversity Group, Environment Australia (1998)
Bremer Inst. of TAFE, Qld (1996)
Brisbane Botanic Gardens, Qld (1999)
Caloundra City Council, Qld (1998)
Centre for Plant Biodiv. Rsch, ACT (1997)
Centre for Plant Conservation Genetics, NSW (1998)
Coffs Harbour City Council, NSW (2000)
Conservation & Land Management, WA (1998)
Council of the City of Orange, NSW (1998)
CSIRO Publishing (1998)
Dept. of Defence, ACT (1998)
Environment ACT (1997)
Eurobodalla Bot Garden, NSW (1997)
Flecker Botanic Gardens, Qld (1999)
Forestry Tasmania (1997)
Gladstone Toodoon Botanic Garden, Qld (1998)
Kings Park and Botanic Gardens, WA (1997)
LWRRDC, ACT (1998)
Logan City Council Libraries, Qld (1998)
Maroochy Shire Council, Qld (1998)
Minerals Council of Aust, ACT (1997)
Mt Tomah Botanic Garden, NSW (1998)
Norfolk Island Botanic Garden (1996)
North Forest Products, Tas (1998)
NSW National Parks & Wildlife Service (1999)
Olympic Coord. Authority, NSW (1998)
Pacific Power, NSW (1998)
Parks and Wildlife Commission, NT (1999)
Parks and Wildlife, Tas (1998)
Parks Australia - North, Christmas Island (1998)
Qld Dept. Environment Cent. Coast (1998)
Queensland Herbarium (1998)
Randwick City Council, NSW (1998)
RGC Mineral Sands, WA (1998)
Royal Botanic Gardens, Melbourne, Vic (1998)
Royal Botanic Gardens, Sydney, NSW (1999)
Royal Tasmanian Botanical Gardens (1998)
Standing Committee on Forestry, ACT (1995)
Strathfield Municipal Council, NSW (1998)
Townsville City Council, Qld (1998)
Transgrid Yass, NSW (1996)
Wollongong Botanic Gardens (1998)
Zoological Parks Board of NSW (1998)
Zoological Board of Victoria (1998)

International Associates

Auckland Plant Collections Network, NZ
Botanic Gardens Conservation Intl, UK
Botanical Research Institute of Texas
David Brackett, SSC, Canada
Canadian Botanical Conservation Network
Center for Plant Conservation, USA
Columbus Zoo, Ohio, USA
Darren Crayne, Florida, USA (1998)
David Given, NZ
Honira Botanic Gardens, Solomon Islands
Indian Society for Conservation Biology
Indonesian Network for Plant Conservation
Clive Jermy
Kebun Raya Indonesia
Noelline Kroon, South Africa
Missouri Bot. Gardens Library (1996)
Suresh Narayana, India
National Botanical Institute, South Africa
PlantNet, UK
Rare Plant Consortium, Canada
Royal Botanic Gardens, Kew, UK (1999)
SABONET, South Africa
Alison Shapcott, Brunei (1998)
Society for Ecological Restoration, USA, (1998)
Dr I Wayan Sumanteria, Indonesia
Suva Botanical Gardens, Fiji
Roy Taylor, USA (1999)
Andrew Townsend, Dept. Cons., NZ
Vailima Botanic Gardens, Western Samoa
Wellington Plant Conservation Network

Other Organisations

ARAZPA (1998)
Arid Lands Environment Centre, NT (1998)
Assn. of Soc. for Growing Aust Plants (1998)
Australian Arid Land Botanic Garden, SA (1999)
Aust Assn. of Bush Regenerators (1998)
Aust. Inland Botanic Gardens, Vic (1997)
Aust. Plant Society, NSW (1998)
Aust. Trust for Conservation Volunteers (1997)
Brunswick Valley Heritage Park, NSW (1998)
Burnley College, Vic (1998)
Burrendong Arboretum Trust, NSW (1997)
Community Biodiversity Network (1998)
Cotter Parkcare Group, ACT (1996)
Friends of Grasslands, ACT (1998)
Friends of North Coast Regional BG, NSW (1998)
Friends of Warrandyte State Park, Vic (1998)
Greening Australia (ACT/SENSW) (1999)
Greening Australia Ltd (1998)
Greening Australia (NSW) (1998)
Greening Aust Sth West Plains, NSW (1997)
Greening Aust Sth West Slopes, NSW (1998)
Greening Australia (Vic) (1997)
Greening Western Australia (1996)
Hunter Region Botanic Gardens, NSW (1998)
Illawarra Zoological Society, NSW (1997)
Indigenous Flora & Fauna Assn (1998)
Lismore Rainforest Bot. Garden (1998)
Merri Creek Management C'ttee, Vic (1998)

Monarto Zool. Park, SA (1998)
Myall Park Botanic Garden, Qld (1998)
National Threatened Species Network (1998)
Native Seedbank for Central Qld (1998)
Network of Reg Bot. Gdns, Qld (1996)
NSW Roadside Env't. C'ttee (1998)
Olive Pink Botanic Garden, NT (1998)
Pangarinda Arboretum, SA (1998)
Qld Biodiversity Network, Qld (1998)
Royal Aust Institute of Parks & Recreation (1998)
Royal Geographical Society of Qld (1999)
Royal Zoological Society of SA (1999)
SGAP Blue Mtns Group, NSW (1999)
SGAP - Canberra Region Inc (1999)
SGAP - Dryandra Study Group (1998)
SGAP - Far Nth Coast Gp, NSW (1998)
SGAP - Hobart District Group (1996)
SGAP - Ipswich Branch, Qld (1998)
SGAP - Maroondah Inc, Vic (1998)
SGAP - Newcastle, NSW (2000)
SGAP - North Shore, NSW (1998)
SGAP - Northern Group, Tas (1999)
SGAP - North West, Tas (1998)
SGAP - Queensland Region (1998)
SGAP - South West Slopes, NSW (1998)
Stony Range Flora Reserve, NSW (1998)
Tasmanian Arboretum Inc (1998)
Trust for Nature (Victoria) (1998)
Understorey Network, Tasmania (1997)
Wallum Action Group, Qld (1997)
Wildflower Society of WA (1999)
Wildflower Society of WA, Nth Suburbs (1998)
Wildlife Preservation Society (1998)
World Wide Fund for Nature Australia (1999)

Individual Members

Gail Abbott, NSW (1998)
Dr David Aldous, Vic (1998)
Jan Allen, NSW (1997)
Ian Anderson, ACT (1998)
Benjamin Armstrong, NSW (1998)
Richard Arnett, NSW (1998)
Margaret Bailey, NSW (1998)
Greg Bain, Vic (1998)
Bee & Bill Barker, Vic (1997)
Clive Barker, NSW (1996)
Tim Barlow, Vic (1999)
Robert Barnes, NSW (1997)
Stephen Barry, Qld (1996)
Douglas Beckers, NSW (1998)
Brett Beecham, WA (1998)
Margaret Bell, NSW (1998)
Stephen Bell, NSW (1997)
John Benson, NSW (1999)
Megan Birmingham, NSW (1996)
Jocelyn Bishop, NSW (1998)
Robert Blackall, NSW (1996)
Dhyan Blore, NSW (1996)
Dr Robert Boden, ACT (1998)
Elizabeth Boesel, NSW (1998)
Dr Barbara Briggs, NSW (1998)
Dr AHD Brown, ACT (1998)
Douglas Brown, Tas (1998)

Louise Bull, NSW (1998)
John Burdett, ACT (1998)
Dr G Burrows, NSW (1996)
Geoff Butler, NSW, Hon. Life Member
Geoff Carr, Vic (1998)
Calder Chaffey, NSW (1998)
Irene Champion, Qld (1998)
Anne Coates, WA (1998)
Fiona Coates, Vic (1998)
Anne Cochrane, WA (1998)
Daniel Cole, NSW (1998)
Ian Cole, NSW (1999)
Ben Correy, NSW (1997)
Russell and Sharon Costin (1997)
Jennifer Cowie, NSW (1997)
Ian Cox, NSW (1998)
Isobel Crawford, ACT (1997)
Simon Cropper, Vic (1998)
P. Cruickshank, NSW (1997)
Louise Cusack, NSW (1997)
Paul Davies, NSW (1998)
Richard Davies, SA (1997)
John Delpratt, Vic (1996)
Ian Denley, Qld (1998)
Michael Doherty, ACT (1998)
Ross Doig, NSW (1998)
Stuart Donaldson, ACT (1996)
Wendy Dossetor, ACT (1997)
Steve Douglas, NSW (1998)
David Duncan, Vic (1998)
David Eddy, ACT (1998)
Geoffrey T Edwards, Qld (1997)
Alison Elvin, ACT (1998)
Elizabeth Fenton, Vic (1997)
Paul Field, Vic (1998)
Donna Fitton, NSW (1998)
Lance Fitzgerald, NSW (1998)
Paul Foreman, Vic (1998)
Julie Foster, ACT (1997)
Bill Gale, WA (1998)
Elizabeth George, WA (1998)
Helen Glazebrook, NSW (1997)
Kaye Glennon, WA (1999)
Roger Good, ACT (1998)
Dave Gordon, Qld (1998)
Dr Janet Gorst, Qld (1998)
Robert Gourlay, ACT (1997)
William Grattan, NSW (1998)
Helen Grey-Smith, WA (1996)
Barrie Hadlow, ACT (1998)
Gwen Harden, NSW (1998)
Bob & Noeline Harris, NSW (1998)
Marion Hawley, NSW (1999)
Tim Hayes, NSW (1997)
Els Hayward, Tas (1999)
Michael Healey, NSW (1996)
Dr Helen Hewson, NSW (1998)
Garth Hockly, Qld (1998)
Patricia Hogbin, ACT (1997)
Keith Holmes, NSW (1998)
Irene Horneman, Qld (1998)
Elsie Howe, NSW (1998)
John T Hunter, NSW (1998)
Mrs S Hyne, NSW (1996)
S. Ip, NSW (1997)

Greg Jackson, NSW (1998)
Amanda Johnson, NSW (1998)
Kerry Jones, Vic (1996)
Morton Kaveney, NSW (1998)
Kerry Kirk, NSW (1998)
Van Klaphake, NSW (1998)
Heather Knowles, Qld (1998)
Bernie Kocur, NSW (1997)
Patty Kolln, NSW (1998)
Jill Landsberg, ACT (1998)
Peter Lawrence, Qld (1998)
Gary Leonard, NSW (1999)
Steven Leuver, NSW (1997)
Tony Lewis, NSW (1998)
Gordon Limburg, NSW (1998)
John Litchfield, ACT (1997)
Vicki Long, WA (1999)
Bill McDonald, Qld (1998)
Tein McDonald, NSW (1998)
Lori McGarva, NSW (1997)
Alex Mackenzie, NSW (1998)
Joanna MacLachlan, NSW (1998)
Jan McNicol, Qld (1998)
Bob Makinson, ACT (1997)
David Mason, NSW (1997)
Maria Matthes, NSW (1997)
Lyn Meredith, ACT, Hon. Life Member
Adam Merrick, Vic (1997)
Tammy Mills-Thom, NSW (1998)
Geoffrey Mitchell, NSW (1997)
Judith Moffatt, Qld (1996)
Brian Mole, Vic (1997)
Rosalind Moore, NSW (1998)
Lorna Murray, Qld (1998)
Daphne Nash, ACT (1997)
Sharon Nash, NSW (1998)
Robyn Newman, NSW (1996)
Nan Nicholson, NSW (1998)
Henry Nix, ACT (1998)
Brett O'Donovan, NSW (1998)
Peter Olde, NSW (1998)
Samantha Olson, NSW (1998)
Joan Overeem, NSW (1997)
Dr. Bob Parsons, Vic (1998)
Hugh Paterson & Francoise Matter, NSW (1998)
Gordon Patrick, NSW (1998)
Travis Peake, NSW (1998)
Judy Peet, NSW (1997)
Ian Perkins, NSW (1998)
Plantique, NSW (1998)
J Playford, Qld (1999)
Brian Quinn, Vic (1998)
Frances Quinn, NSW (1996)
Peter Ray, WA (1998)
Ruth Readford, NSW (1998)
Phil Redpath, NSW (1997)
Dorothy Redreau, WA (1996)
Bonni Reichelt, Qld (1998)
Mark Richardson, NT Hon. Life Member
Lill Roberts, Vic (1999)
Geoffrey Robertson, NSW (1998)
Robert & Debra Robertson, ACT (1998)
Brett Robinson, Qld (1997)
Mark Robinson, NSW (2000)

Steve Row, NSW (1998)
Esma Salkin, Vic (1998)
Sarah Sharp, ACT (1997)
Mark Sheahan, NSW (1996)
Darren Shelley, NSW (1998)
Ian R Smith, Qld (1997)
Marilyn Smith, NSW (1997)
Diana Snape, Vic (1998)
Fiona Spier-Ashcroft, ACT (1997)
Marilyn Sprague, Vic (1997)
Debbie Stevenson, NSW (1998)
John & Irene Story, Qld (1998)
Jonathan Streat, NSW (1997)
Joe Swartz, NSW Hon. Life Member
Jane Tarran, NSW (1998)
Nicki Taws, ACT (1998)
Technical Librarian, Qld (1998)
Elaine Thomas, Vic (1998)
Lyn & Merle Thompson, NSW (1997)
David Tierney, NSW (1998)
Kylie Treble, Vic (1998)
Bindi Vanzella, NSW (1998)
Brenda Venton, NSW (1998)
Dierk von Behrens, ACT (1997)
Warner Wait, Tas (1998)
Josephine Walker, NSW (1997)
Robert Wallis, Vic (1999)
Bruce Wannan, Qld (1999)
Chris Ward, NSW (1997)
Sylvia Webber, NSW (1997)
Matt White, NSW (1997)
John Wilkes/Ros Cornish, NSW (1998)
Jann Williams, NSW (1999)
J & A Willinck, NSW (1999)
Anne-Marie Wilson, ACT (1999)
Brigitta Wimmer, NSW (1999)
Geoff Winning, NSW (1998)
John Wrigley, NSW (1998)
Martin Zierholtz, NSW (1997)
Toive Zoete, NSW (1998)

Donations Received from:

John Benson (1998)
Bill Gale (1998)
EA George (1997)
Janet Gorst (1998)
Marion Hawley (1998)
S. Ip (1997)
Gary Leonard (1998)
Steven Leuver (1997)
Gordon Limburg (1998)
A Mackenzie (1998)
Plantique (1997)
Ruth Readford (1997)
Martin Zierholtz (1997)